

CHRONOLOGICAL BIBLIOGRAPHY OF THE TUNA-DOLPHIN PROBLEM, 1941-2001

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INTRODUCTION

This bibliography was compiled as a step in developing a chronology and history of the tuna-dolphin issue. It covers the eastern tropical Pacific and the eastern tropical Atlantic, the only two areas where extensive fishing for tuna on dolphins has been recorded. It includes technical articles, conference abstracts, unpublished and "gray" literature, magazine articles, newsletter articles, legal documents, selected internal documents, bibliographies, videotapes, films and websites. It does not include newspaper articles or press releases. Document/volume number and pagination are included where available. Some entries are annotated [in square brackets], especially for earlier years.

This list is extensive but not complete. Some items have undoubtedly been missed. Some issues of certain periodicals and newsletters could not be found. Coverage is most complete for the 1970s and 80s and relatively weak for more recent years, when I was not

as involved in research on the problem as earlier. Any suggestions or contributions toward an amplified second edition would be very greatly appreciated.

Copies of many of the listed items are held in the Tuna/Dolphin Archive or the Library at the Southwest Fisheries Science Center (NMFS, NOAA Fisheries), La Jolla, CA. Other items are in the files of the Division of Protected Resources, NOAA Fisheries (NMFS), Silver Spring, MD.

I. ARTICLES AND IRREGULAR REPORTS

1941

Silva, G. "Porpoise fishing" described by Capt. Guy Silva. *Pacific Fisherman*, February 1941. [Describes tuna-dolphin association and its exploitation by pole-and-line tuna fishermen].

1961

McNeely, R. L. The purse seine revolution in tuna fishing. *Pacific Fisherman*, June 1961:27-58. [Mentions co-occurrence of dolphins and tuna but not the dolphin mortality during fishing operations].

1962

Howard, G. V. Review and forecast of research programs. 1. Bureau of Commercial Fisheries San Diego Biological Laboratory. *Proceedings of the Thirteenth Pacific Tuna Conference held at Lake Wilderness Lodge, Washington*: 4. ["Both porpoise and sharks are associated with tuna schools in the eastern tropical Pacific and each pose problems to tuna fishermen in their operations. Some work has, therefore, been initiated on their taxonomy, life history and distribution."]

1963

Hester, F. J., J. R. Hunter and R. R. Whitney. Jumping and spinning behavior in the spinner porpoise. *Journal of Mammalogy* 44(4):586-588. [Notes association of dolphins and tuna but not fishery involvement].

Howard, G. V. II. Pacific tuna research programs: works in progress and future plans. 1. U.S. Bureau of Commercial Fisheries Biological Laboratory, San Diego, California. *Proceedings Fourteenth Pacific Tuna Conference, September 30 - October 2, 1963, Lake Arrowhead, California*:3. ["Other research...taxonomic and life history studies of species of sharks and porpoises associated with the tropical tunas;.."].

1964

- Anon. [Based on Hester et al. (1963)]. Why do they spin? *Animals* [London] 4(15):424-425. [Mentions association with tuna and the resulting interest by fishermen].
- Howard, G. V. II. Pacific tuna research programs: works in progress and future plans. Bureau of Commercial Fisheries, San Diego Laboratory. *Proceedings Fifteenth Pacific Tuna Conference, September 28 -30, 1964, Lake Arrowhead, California*:9. ["Support is also being provided for studies of the taxonomy, life history and aspects of the behavior of porpoises and sharks associated with the tropical tunas."].
- Waller, D. W. Vessel-approach responses of cetaceans in the eastern Pacific tuna fishery. *Proceedings Fifteenth Pacific Tuna Conference, September 28 -30, 1964, Lake Arrowhead, California*:29-30.

1965

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1966

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- Daugherty, A. E. *Marine mammals of California*. First revision. Department of Fish and Game, State of California, Sacramento. 87pp. [Notes association of spotted dolphins with tuna schools and "...dead ones which the tunaboats bring in."]

1968

- Fitch, J. E. and R. L. Brownell, Jr. Fish otoliths in cetacean stomachs and their importance in interpreting feeding habits. *Journal of the Fisheries Research Board of Canada* 25(12):2561-2574. [Notes that spotted and spinner dolphins frequently school together, often in the company of yellowfin tuna. Analyzes stomach contents of eight dolphins "netted with tuna."]
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Simmons, D.C. Purse seining off Africa's west coast [in 1967]. Commercial Fisheries Review, March 1968:21-22. [Eight net sets on common dolphins, for 89 tons of tuna].

1969

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- Anon. New program to prevent porpoise deaths announced by Commerce Secretary Peterson. *NOAA* [Department of Commerce] 3(1):54.
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- Anon. Porpoise/tuna program expanded. *Tuna Newsletter* [4] February 1973:5.
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- Anon. Ad hoc workshop held at SWFC on methods of age determination in delphinids. *Tuna Newsletter* [5], March 1973:7.
- Anon. Porpoise and tuna liver samples analyzed for chlorinated hydrocarbon compounds at La Jolla. *Tuna Newsletter* [5], March 1973:7.

- Anon. Participants in gear development workshop discuss ideas to alleviate porpoise mortality in tuna fishery. Tuna Newsletter [5], March 1973:7.
- Anon. Recent developments in NMFS porpoise/tuna program. Tuna Newsletter [6], April 1973:5.
- Anon. Analysis of porpoise observer data continues. Tuna Newsletter [6], April 1973:6.
- Anon. Requirements for aerial assessment porpoise survey discussed. Tuna Newsletter [6], April 1973:6.
- Anon. NMFS tests experimental gear to reduce porpoise losses on charter cruise. Tuna Newsletter [7], May 1973:1-2.
- Anon. Porpoise/tuna workshop meeting held at SWFC. Tuna Newsletter [7], April 1973:7.
- Anon. ATA representative observes NMFS gear tests to reduce porpoise mortality. Tuna Newsletter [7], May 1973:8.
- Anon. Porpoise behavioral studies begin under contract with National Marine Fisheries Service. Tuna Newsletter [8], June 1973:4.
- Anon. Report completed on aerial assessment of the porpoise populations. Tuna Newsletter [9], July 1973:5.
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Anon. This month and high time. The Whalewatcher [Newsletter of the American Cetacean Society] 7(2):1-2.

Anon. Last month. The Whalewatcher [Newsletter of the American Cetacean Society] 7(3):1-2.

Anon. Department of corrections and additions. The Whalewatcher [Newsletter of the American Cetacean Society] 8(4):6.

Anon. Of particular interest this month. The Whalewatcher [Newsletter of the American Cetacean Society] 8(5):4-5.

Anon. Stan Minasian. The Whalewatcher [Newsletter of the American Cetacean Society] 8(6):3-4.

Anon. But that's not all. The Whalewatcher [Newsletter of the American Cetacean Society] 8(7):5-6.

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Anon. Efforts to reduce porpoise mortalities being tested under commercial fishing conditions. Tuna Newsletter 15:3.

Anon. NMFS survey of porpoise populations underway. Tuna Newsletter 15:4-5.

Anon. NMFS porpoise observer program underway to obtain vital statistics on porpoise mortality associated with the tuna fishery. Tuna Newsletter 15:6.

Anon. Use of NMFS-recommended anti-torque cable eliminating net roll-ups as a cause of porpoise mortality. Tuna Newsletter 16:4.

Anon. 1974 porpoise observer data will produce statistically significant information on tuna/porpoise interaction. Tuna Newsletter 17:3.

- Anon. Staff of Marine Mammal Investigations assembling material on porpoise/tuna interaction in preparation for formal hearing on incidental taking of marine mammals. Tuna Newsletter 18:4.
- Anon. NMFS porpoise observers continue to collect data on porpoise/tuna interactions aboard tuna seiners of U.S. fleet. Tuna Newsletter 18:6.
- Anon. Technical meeting on program for analysis of porpoise population dynamics at Southwest Fisheries Center. Tuna Newsletter 19:2.
- Anon. Thirty four trips completed by NMFS porpoise observers in Commission Yellowfin Regulatory Area thus far in 1974. Tuna News letter 19:4-5.
- Anon. Efforts continue to complete analysis of porpoise data. Tuna Newsletter 20:5.
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- Anon. Draft report on NMFS porpoise and gear being reviewed. Tuna Newsletter 24:4.
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- [Barham, E.] Formal hearings held to discuss proposed NMFS regulations on gear which may be used in the tuna fishery associated with porpoise. Tuna Newsletter 19:4.
- [Barham, E.] Hearings held on draft environmental impact statement on porpoise. Tuna Newsletter 19:5-6.
- [Barham, E.] NMFS-designed large-volume purse seine net modified for improved fish handling. Tuna Newsletter 20:5-6.
- [Barham, E.] NMFS large-volume tuna purse seine net effective in reducing porpoise mortality. Tuna Newsletter 23:2.
- [Barham, E.] Arrangements underway to place NMFS observers on U.S. tuna seiners. Tuna Newsletter 26:3.
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- Anganuzzi, A. A. and S. T. Buckland. Reducing bias in trends in dolphin abundance estimated from tuna vessel data. SC/40/SM3. 32pp.
- Anon. United States progress report on cetacean research, June 1987 to May 1988. SC/40/ProgRep USA. 52pp.
- Chivers, S. J., A. A. Hohn and R. B. Miller. Composition of the 1987 incidental kill of small cetaceans in the US purse-seine fishery for tuna in the eastern tropical Pacific. SC/40/SM1. 14pp.
- Hall, M. A. and S. D. Boyer. Preliminary estimates of incidental mortality of dolphins in the eastern tropical Pacific tuna fishery in 1987. SC/40/SM2. 6pp.
- Holt, R. S. and S. N. Sexton. Monitoring trends in dolphin abundance in the eastern tropical Pacific using research vessels over a long sampling period: analysis of 1987 data. SC/40/SM12. 17pp.

1989

- Anon. United States progress report on cetacean research, June 1988 to May 1989. SC/41/ProgRep USA. 27pp.
- Chivers, S. J., R. B. Miller and A. A. Hohn. Composition of the 1988 incidental kill of small cetaceans in the US purse-seine fishery for tuna in the eastern tropical Pacific. SC/41/SM2. 15pp.
- Dizon, A. E., S. O. Southern and W. F. Perrin. Molecular analysis of mtDNA types in exploited populations of spinner dolphins (*Stenella longirostris*). SC/S89/GEN11.
- Hall, M. A. and S. D. Boyer. Incidental mortality of dolphins in the tuna purse-seine fishery in the eastern Pacific Ocean during 1988. SC/41/SM6. 6pp.

1990

- Anganuzzi, A. A., S. T. Buckland and K. L. Cattanch. Relative abundance of dolphins associated with tuna in the eastern tropical Pacific, estimated from tuna vessel sightings data for 1988 and 1989. SC/42/SM36. 26pp.
- Anon. United States progress report on cetacean research, June 1989 to May 1990. SC/42/ProgRep USA. 33pp.
- Chivers, S. J. and P. A. Akin. Sampling effects of the estimation of life history parameters for eastern tropical Pacific dolphins. SC/42/SM45. 12pp.
- Chivers, S. J., A. A. Hohn and A. C. Myrick, Jr. Population regulation in exploited eastern tropical Pacific pelagic dolphins: a research plan to study trends in population condition simultaneously with trends in population abundance and carrying capacity. SC/42/SM44. 26pp.
- Gerrodette, G. and P. Wade. Monitoring trends in dolphin abundance in the eastern tropical Pacific: analysis of 1989 data. SC/42/SM42. 12pp.
- Hall, M. A. and S. D. Boyer. Incidental mortality of dolphins in the tuna purse-seine fishery in the eastern Pacific Ocean during 1989. SC/42/SM37. 4pp.
- Hohn, A. A., R. B. Miller, R. B. Peltier and S. J. Chivers. Composition of the incidental kill of small cetaceans in the US purse-seine fishery for tuna in the eastern tropical Pacific during 1989. SC/42/SM18. 9pp.

Sexton, S. N., R. S. Holt and D. P. DeMaster. Investigating parameters affecting relative estimates in dolphin abundance in the eastern tropical Pacific from research vessel surveys in 1986, 1987 and 1988. SC/42/SM43. 50pp.

1991

Anganuzzi, A. A., K. L. Cattanch and S. T. Buckland. Relative abundance of dolphins associated with tuna in the eastern tropical Pacific in 1990 and trends since 1975, estimated from tuna vessel sightings data. SC/43/SM14. 11pp.

Anon. United States progress report on cetacean research, June 1990 to April 1991. SC/43/ProgRep USA. 23pp.

Hall, M. A. and S. D. Boyer. Incidental mortality of dolphins in the tuna purse-seine fishery in the eastern Pacific Ocean in 1990. SC/43/SM11. 5pp.

Peltier, K. M., R. B. Miller and S. J. Chivers. Composition of the 1990 incidental kill of small cetaceans in the US purse-seine fishery for tuna in the eastern tropical Pacific. SC/43/SM2. 10pp.

[Reyes, J. C.]. The conservation of small cetaceans: a review. SC/43/SM3. 115pp.

Wade, P. R. and T. Gerrodette. Estimates of dolphin abundance in the eastern tropical Pacific: preliminary analysis of five years of data. SC/43/SM13. 25pp.

1992

Anganuzzi, A. A., S. T. Buckland and K. L. Cattanch. Relative abundance of dolphins associated with tuna in the eastern tropical Pacific: analysis of 1991 data. SC/44/SM23. 18pp.

Anon. United States progress report on cetacean research, May 1991 to May 1992. SC/44/ProgRep USA. 25pp.

Hall, M. A. and C. Lennert. Incidental mortality of dolphins in the tuna purse-seine fishery in the eastern Pacific Ocean in 1991. SC/44/SM6. 5pp.

Peltier, K. M., S. J. Chivers and S. Kruse. Composition of the 1991 incidental kill of small cetaceans in the US in the eastern tropical Pacific tuna fishery and two California gillnet fisheries. SC/44/SM12. 15pp.

Wade, P. R. and T. Gerrodette. Estimates of cetacean abundance and distribution in the eastern tropical Pacific. SC/44/O18. 27pp.

1993

Anganuzzi, A. A. and S. T. Buckland. Relative abundance of dolphins associated with tuna in the eastern tropical Pacific: analysis of 1992 data. SC/45/SM7. 17pp.

Anon. United States progress report on cetacean research, May 1992 to April 1993. SC/45/ProgRep USA. 23pp.

Chivers, S. J. and D. P. DeMaster. An individual-based model to evaluate life history parameters as indicators of density dependence in delphinid populations. SC/45/SM10. 20pp.

Gerrodette, T. Preliminary results of a 1992 cetacean survey off the Pacific coast of Central America. SC/45/SM9. 22pp.

- Hall, M. A. and C. Lennert. Incidental mortality of dolphins in the eastern Pacific Ocean tuna fishery in 1992. SC/45/SM1. 5pp.
- Peltier, K. M., S. J. Chivers and W. T. Norman. Composition of the incidental kill of odontocetes in the eastern tropical Pacific US tuna fishery and two California gillnet fisheries for 1992. SC/45/SM2. 18pp.

1994

- Anganuzzi, A. A. and S. T. Buckland. Preliminary results on the relative abundance of dolphins associated with tuna in the eastern tropical Pacific for 1993. SC/46/SM21. 15pp.
- Anon. United States progress report on cetacean research, May 1993 to April 1994. SC/46/ProgRep USA.
- Fleischer, L. A. and H. Pérez-Cortés M. Mexico progress report on cetacean research April 1993 to March 1994. SC/46/ProgRep Mexico. 4pp.
- Hall, M. A. and C. Lennert. Incidental mortality of dolphins in the eastern Pacific Ocean tuna fishery in 1993. SC/46/SM4. 7pp.
- Peltier, K. M., S. J. Chivers and M. D. Henshaw. Composition of the incidental kill of odontocetes for 1993 in the eastern tropical Pacific US tuna fishery and two California gillnet fisheries. SC/46/SM2. 17pp.

1995

- Anganuzzi, A. A. and S. T. Buckland. Preliminary results on the relative abundance of dolphins associated with tuna in the eastern tropical Pacific for 1994. SC/47/SM51. 12pp.
- Anon. United States progress report on cetacean research, May 1994 to April 1995. SC/47/ProgRep USA. 26pp.
- Buckland, S. T., N. H. Augustin, D. L. Borchers, K. L. Cattanach, S. L. Cumberworth, P. C. Fiedler, S. B. Reilly and A. A. Anganuzzi. Modelling the spatio-temporal distribution of dolphins in the eastern tropical Pacific. SC/47/SM37. 32pp.
- Hall, M. A. and C. Lennert. Incidental mortality of dolphins in the eastern Pacific Ocean tuna fishery in 1994. SC/47/SM1. 7pp.
- Robertson, K. M., M. D. Henshaw and S. J. Chivers. Composition of the 1994 incidental kill of cetaceans in the eastern tropical Pacific US tuna fishery and two California gillnet fisheries. SC/47/SM4. 14pp.
- Robineau, D. (Compiler). France, progress report on cetacean research April 1994 to April 1995. SC/47/ProgRep France. 5pp.

1996

- Anon. United States progress report on cetacean research, May 1995 to May 1996. SC/48/ProgRep USA. 28pp.

- Gerrodette, T. and D. M. Palacios. Estimates of cetacean abundance in EEZ waters of the eastern tropical Pacific. SC/48/SM35. 16pp.
- Hall, M. A. and C. Lennert. Incidental mortality of dolphins in the eastern Pacific Ocean tuna fishery in 1995. SC/48/SM4. 8pp.
- Palacios, D. M. and T. Gerrodette. Potential impact of artisanal gillnet fisheries on small cetacean populations in the eastern tropical Pacific. SC/48/SM36. 9pp.
- Robineau, D. (Compiler). France, progress report on cetacean research, April 1995 to April 1996. SC/48/ProgRep France. 3pp.

1997

- Anon. United States progress report on cetacean research, June 1996 to September 1997. SC/49/ProgRep USA. 25pp.
- Archer, F. I., II. Osteological variation in striped dolphins (*Stenella coeruleoalba*). SC/49/SM28. 31pp.
- Archer, F. I. and W. F. Perrin. Species account of striped dolphins (*Stenella coeruleoalba*). SC/49/SM27. 27pp.
- Lennert, C. and M. A. Hall. Incidental mortality of dolphins in the eastern Pacific Ocean tuna fishery in 1996. SC/49/SM1. 12pp.

1998

- Pérez-Cortés Moreno, H. (Compiler). Mexico progress report on cetacean research, October 1997 to March 1998, with statistical data for the calendar year 1997. SC/50/ProgRep Mexico. 5pp.

1999

- Pérez-Cortés Moreno, H. (Compiler). Mexico progress report on cetacean research, January to December 1998, with statistical data for the calendar year 1998. SC/51/ProgRep Mexico. 5pp.
- Quintal, J. (Compiler). USA progress report on cetacean research - May 1998 to April 1999 with statistical data for calendar year 1996. SC/51/ProgRep USA. 24pp.

2000

- Pérez-Cortés Moreno, H. (Compiler). Mexico progress report on cetacean research, January to December 1999, with statistical data for the calendar year 1999. SC/52/ProgRep Mexico. 5pp.
- Quintal, J. (Compiler). USA progress report on cetacean research - May 1999 to April 2000 with statistical data for calendar year 1997. ProgRep USA. 25pp.
- Robineau, D. (Compiler). France, progress report on cetacean research, April 1999 to April 2000, with statistical data for the calendar year 1999. SC/52/ProgRep France. 5pp.

2001

Pérez-Cortés Moreno, H. and L. Rojas-Bracho (Compilers). Mexico progress report on cetacean research, January to December 2000 with statistical data for the calendar year 2000. SC/53/ProgRep Mexico. 7pp

Quintal, J. (Compiler). USA progress report on cetacean research - May 2000 to April 2001 with statistical data for calendar year 1998. SC/53/ProgRep USA. 25pp.

IV. REPORTS OF THE SOUTHWEST FISHERIES SCIENCE CENTER (aka Fishery-Oceanography Center, 1965-Aug 1971; Southwest Fisheries Center, Sep 1971- May 1990), NMFS, NOAA, LA JOLLA, CALIFORNIA

[Monthly Report issued 1968-1984; Report of Activities issued bimonthly 1985-1993 and quarterly 1994-1997 (first quarter only)]

1968

[Perrin, W. F.] Operations Research [part]. June:5.

[Perrin, W. F.] Tuna-porpoise school complexes studied. October:7.

1969

[Laurs, M.] Porpoise sightings during EASTROPAC. May:3-4.

[Perrin, W. F.] Tuna/porpoise survey in eastern equatorial Atlantic. June:6.

[Perrin, W. F.] Tunaboat operations in the equatorial Atlantic. August:6

[Perrin, W. F.] Comparative feeding habits of tuna and porpoise in mixed feeding aggregations. August:6-7.

[Perrin, W. F.] Population dynamics of porpoise. December:3.

1970

[Hunter, J.] Net avoidance behavior of spinner porpoise tested. June:6.

[Perrin, W. F.] Development of techniques for rescuing porpoise. January:3-4.

[Perrin, W. F.] Population biology of porpoise. January:4-5.

[Perrin, W. F.] Design of gate for releasing porpoise from purse seines. February:5.

[Perrin, W. F.] Attempt to test oikomi porpoise-driving method fails. February:5-6.

[Perrin, W. F.] Electronic sound emitters to be tried for herding porpoise. March:6-78.

[Perrin, W. F.] Meeting held to discuss techniques for rescuing porpoise. March:7-8.

[Perrin, W. F.] Porpoise gate under construction. March:8.

[Perrin, W. F.] Porpoise behavioral experiments to be conducted in Hawaii. April:6.

[Perrin, W. F.] Porpoise rescue gate under construction. April:6.

[Perrin, W. F.] Bids solicited for electronic porpoise-chasers. April:6.

[Perrin, W. F.] Porpoise gate equipment ready for testing. May:6.

[Perrin, W. F.] Electronic porpoise chasers under construction. May:7.
 [Perrin, W. F.] Experimental porpoise rescue gate tested. June:8.
 [Perrin, W. F.] Porpoise age-determination studies continue. July:7.
 [Perrin, W. F.] Porpoise gate redesigned. July:8.
 [Perrin, W. F.] Preparation of porpoise ovaries for study nears completion. August:8.
 [Perrin, W. F.] Tests planned for redesigned porpoise gate. August:8.
 [Perrin, W. F.] Age determination method developed for porpoise. September:9-10.
 [Perrin, W. F.] 31,588 otoliths processed. September:10.
 [Perrin, W. F.] Improved porpoise gate tested. September:10-11.
 [Perrin, W. F.] Electronic porpoise herders ready. September:11.
 [Perrin, W. F.] Porpoise skeletal specimens in National Museum examined. October:8.
 [Perrin, W. F.] Porpoise rescue gear shown to fishermen. October:8-9.
 [Perrin, W. F.] Spotted and spinner porpoise from eastern and western Pacific and Atlantic compared. October:9.
 [Perrin, W. F.] Porpoise rescue gear tested at sea. December:13-14.
 [Perrin, W. F.] Observers placed on tunaboats to collect porpoise mortality data. December:14.

1971 (Fishery-Oceanography Center became Southwest Fisheries Center in September)

[Coe, J. M.] Delphinid length-weight relationships defined. September:7-8.
 [Perrin, W. F.] Manuscripts on Hawaii experiments and porpoise-shark interactions completed. May:9.
 [Perrin, W. F.] Rare porpoise identified [*Lagenodelphis hosei*]. June:7-8.
 [Perrin, W. F.] Study of porpoise parasites completed. July:11-12.
 [Perrin, W. F.] Color patterns of spinner porpoises analyzed. July:12.
 [Perrin, W. F.] Porpoise research cruise planned for November. October:7.
 [Perrin, W. F.] *Queen Mary* chartered for porpoise research. November:13-16.
 [Perrin, W. F.] Porpoise research cruise completed. December:14-16.

1972

Anon. Center Director attends Secretary Peterson's press conference on marine mammals. September:13-14.
 [Coe, J. M.] NMFS porpoise observers leave San Diego with tuna fleet. December:15.
 [Perrin, W. F.] Porpoise observers return from tuna trips. January:13.
 [Perrin, W. F.] NMFS biologist testifies on porpoise problem at Senate hearing. February:15.
 [Perrin, W. F.] Collection of porpoise mortality data continues. March:14.
 [Perrin, W. F.] Porpoise observer cruises completed. April:12-13.
 [Perrin, W. F.] Porpoise observer remains at sea. May:17.
 [Perrin, W. F.] Porpoise committee established. June:12.
 [Perrin, W. F.] Rare porpoise from eastern tropical Pacific identified. June:12-13.
 [Perrin, W. F.] Porpoise tagging charter planned. June:13.
 [Perrin, W. F.] Porpoise mortality observer program completed for 1972. June:13.
 [Perrin, W. F.] Porpoise-tuna review committee submits report. September:14.

[Perrin, W. F.] Porpoise research charter begins. September:14.
 [Perrin, W. F.] Feeding habits of porpoise and tuna studied. September:15.
 [Perrin, W. F.] Chartered tunaboat, Independence, returns from porpoise research cruise. October:13.
 [Perrin, W. F.] Study completed on the distribution of melanin in the color pattern of *Delphinus*. October:14.

1973

Anon. Progress in porpoise program. January:15.
 Anon. Barham named NMFS porpoise program manager. February:17.
 Anon. NMFS obtains feedback from Industry on progress of porpoise program. February:19.
 Anon. Analysis of porpoise observer data continues. April:9.
 Anon. Other developments in porpoise research. April:9.
 Anon. Requirements for aerial assessment porpoise survey discussed. April:10.
 Anon. Porpoise observer program nears completion in yellowfin regulatory area. May:9-10.
 Anon. Analysis of 1973 porpoise observer data underway. June:8.
 Anon. Feasibility study of aerial survey to estimate porpoise populations. June:8-9.
 Anon. Population models for porpoise under development. June:9.
 Anon. Report completed on sample size determination for 1974 porpoise observer program. July:7.
 Anon. Center Director testifies on Government efforts to reduce porpoise mortality during House Subcommittee hearings at Southwest Fisheries Center. August:5.
 Anon. Porpoise/tuna workshop held at La Jolla Laboratory. August:5-6.
 Anon. NMFS Director advises tuna boat owners of 1974 porpoise observer program. September:6.
 Anon. Porpoise tagging experiment planned for *Kennedy* charter cruise. October:6.
 Anon. NMFS plans census of porpoise population. November:3-4.
 Anon. Progress in porpoise research reported to tuna industry working group. November:5.
 Anon. Porpoise observers complete preparations for participation in 1974 tuna fishing season. December:4-5.
 [Barham, E.] Developments in porpoise project. March:11.
 [Barham, E.] NMFS soliciting volunteers as porpoise observers. August:6.
 [Barham, E.] NMFS personnel participate in ATA-sponsored gear workshops. December:5.
 [Coe, J. M.] Preparations continue for 1974 NMFS porpoise observer program. November:5--6.
 [McNeely, R.] NMFS charts tuna seiner to test gear to reduce porpoise mortality. May:7-9.
 [McNeely, R.] Recent developments in porpoise gear research outlined. July:7-9.
 [McNeely, R.] *Kennedy* skipper reports favorably on performance of anti-torque cable. August:6-7.
 [McNeely, R.] Tuna net incorporates new design features. September:6.

- [McNeely, R.] *Trinidad* selected as charter vessel for gear dynamics cruise. September:7.
- [McNeely, R.] Purse seiner, *Trinidad* under charter to NMFS for tests of porpoise gear. October:5.
- [McNeely, R.] New experimental purse seine net ready for sea trials. October:6.
- [McNeely, R.] Use of modified fishing gear and tactics on NMFS charter cruise results in lower porpoise mortalities. November:4-5.
- [Perrin, W. F.] Multispecies aggregations of pelagic predators studied. February:18.
- [Perrin, W. F.] Porpoise/tuna program expanded. February:18.
- [Perrin, W. F.] Porpoise/tuna observer program proceeds. February:18-19.
- [Perrin, W. F.] Visit by Canadian whale researcher. February:19.
- [Perrin, W. F.] Ad hoc workshop held at SWFC on methods of age determination in delphinids. March:11.
- [Perrin, W. F.] Study completed on growth of spotted porpoise. April:11.
- [Perrin, W. F.] Porpoise behavioral studies begin under contract with NMFS. June:9.
- [Perrin, W. F.] Staff scientist works at European museums. July:9.
- [Perrin, W. F.] Work continues on porpoise life studies. September:5.

1974

- Anon. NMFS porpoise observer program underway to obtain vital statistics on porpoise mortality associated with the tuna fishery. January:4.
- Anon. NMFS survey of porpoise populations underway. January:5.
- Anon. Efforts to reduce porpoise mortalities being tested under commercial fishing conditions. January:5-6.
- Anon. 1974 propoise [*sic*] observer data will produce vital information on tuna/porpoise interaction. March:7.
- Anon. Scientific Advisory Committee of the Marine Mammal Commission holds hearings in San Diego. April:8-9.
- Anon. Staff of Marine Mammal Investigations assembling material on porpoise/tuna interaction in preparation for formal hearings on incidental taking of marine mammals. April:9.
- Anon. Program manager serves as scientific advisor at DEIS hearings. May:9.
- Anon. Technical meeting on program for analysis of porpoise population dynamics held at Southwest Fishery Center. May:9-10.
- Anon. NMFS-designed large-volume purse seine net modified for improved fish handling. June:9-10.
- Anon. Efforts continue to complete analysis of porpoise population data. June:10.
- Anon. Reports indicate NMFS-designed tuna purse seine net effective in reducing porpoise mortalities. July:8.
- Anon. Summary report of porpoise research in preparation for Commerce Report to Congress. July:8-9.
- Anon. Summary report of porpoise research in preparation for Commerce Report to Congress. August:9.
- Anon. Plans made for further tests of porpoise saving gear on NMFS-chartered tuna boats. September:13-14.

Anon. Draft report on NMFS porpoise and gear research being reviewed. September:14.

Anon. Drawing held for tuna vessels to carry observers during the 1975 tuna fishing season. October:8.

Anon. NMFS-chartered seiners to conduct tests of porpoise-saving gear. October:8.

Anon. Public hearing to be held on porpoise report. October:9.

Anon. Arrangements underway to place NMFS porpoise observers on U.S. tuna seiners. November:13.

Anon. NMFS-chartered purse seiner returns from cruise to test porpoise saving gear. November:13.

Anon. Data base management system for porpoise data under development. November:14.

Anon. SWFC hosts meetings of IWC and international experts on marine mammals [FAO/ACMRR Working Party on Marine Mammals/Ad Hoc Group 2 on Small Cetaceans]. December:17.

[Barham, E. G.] Government observers complete extensive aerial porpoise surveys. February:7-8.

[Perrin, W. F.] Paper nearing completion on reproduction and biology of spotter porpoise. April:9-10.

[Perrin, W. F.] Natural mortality of porpoise studied. July:8.

1975

Anon. Marine mammal staff at La Jolla Laboratory reorganized [W. Lenarz appointed new Program Leader]. January:6.

Anon. Twenty-two NMFS porpoise observers still at sea. January:6.

Anon. Whale observers assigned to SWFC [L. Tsunoda and G. Nitta]. January:708.

Anon. NMFS porpoise observer program continues. February:9.

Anon. Computerized data management system for porpoise program data under development. February:10.

Anon. Seven "porpoise aprons" installed on U.S. seiners to expedite release of porpoise from purse seine net. March:8.

Anon. NMFS porpoise observer program continues. March:8.

Anon. Members of marine mammal staff at La Jolla Laboratory participate in ATA training sessions for porpoise certificate holders. March:9.

Anon. Operations research analyst [David Au] joins Porpoise/Tuna Program at La Jolla Laboratory. April:9-10.

Anon. Account of NMFS porpoise research presented to members of American Cetacean Society. April:10.

Anon. All NMFS porpoise observer trips completed during 1975 open tuna fishing season. April:10.

Anon. Testing of "porpoise aprons" continues. April:11.

Anon. NMFS porpoise observer program for 1975 tuna fishing season nears end. May:9-10.

Anon. NOAA General Counsel reviews application of Freedom of Information Act to NMFS porpoise data. June:8.

Anon. Progress report on NMFS porpoise research in preparation. June:10.

Anon. Recent developments in porpoise/tuna research. June:11-12.

Anon. Porpoise progress report in press. July:15.

Anon. Edited porpoise observer data prepared for EDF and tuna industry. July:15-16.

Anon. NMFS report on progress of research on porpoise mortality incidental to tuna purse seine fishing for fiscal year 1975 released to public. August:23-25.

Anon. NASA cooperation permits evaluation of aircraft for porpoise surveys. August:25-26.

Anon. NMFS charters two tuna purse seine vessels to test porpoise-saving gear and methods. September:12-13.

Anon. Feasibility studies in progress for aerial survey of porpoise populations. September:13.

Anon. Center scientists testify at informal public hearing on reissuance of general permits for incidental take of porpoise. October:16-17.

Anon. New porpoise protection procedures announced by NMFS. November:14-15.

Anon. Two NOAA research vessels assigned to porpoise survey in eastern tropical Pacific. December:21-22.

Anon. NMFS gear research technician to observe performance of porpoise-saving gear aboard seiner. December:22.

[Perrin, W. F.] NMFS scientist collaborates on worldwide revision of porpoise genus. January:7.

[Perrin, W. F.] Progress made in study of life histories of spinner porpoises. February:9.

[Perrin, W. F.] Processing of 1974 porpoise specimens nears end. February:9.

1976

Anon. NOAA research vessels continue survey of porpoise distribution boundaries. January:15-16.

Anon. Plans made to fleet-test complete array of porpoise-saving gear. January:16-17.

Anon. Methodology being developed for comparing incidental porpoise mortality of 1975 with 1976. January:17.

Anon. John Everett is new leader of Porpoise/Tuna Program. January:17.

Anon. Statistical experts examine methodology for comparison of porpoise mortality. February:20-21.

Anon. NMFS-tuna industry cooperate in tests of porpoise saving gear and methods. February:22.

Anon. Two NOAA research vessels complete survey of porpoise distributions. February:22-23.

Anon. NMFS announces porpoise quota. May/June:20-21.

Anon. Future of NMFS gear observers in doubt following Judge Richey's decision. May/June:21-22.

Anon. Efforts underway to convene workshop to define optimum sustainable population of porpoise. May/June:23.

Anon. SWFC scientists attend Bergen meeting on marine mammals. August:15.

Anon. Porpoise observers collect weather data. August:15.

[Au, D. W. K.] Results of Cromwell survey of porpoise boundaries now available. April:15-17.

- [Au, D. W. K.] NOAA vessel, Surveyor, used for "ground truth" survey of porpoise schools. December:19.
- [Au, D. W. K.] Aerial-ship survey to estimate porpoise populations. December:19-21.
- [Barham, E. G.] Jordan cruise results note extension of porpoise boundaries. March:17-20.
- [Barham, E. G.] Plans made for aerial survey of porpoises in eastern tropical Pacific. May/June:22-23.
- [Everett, J.] NMFS/tuna industry continue preparations for cooperative study of porpoise saving gear. March:20-21.
- [Everett, J.] Estimates made of porpoise mortality for first seven months of 1976. August:14-15.
- [Everett, J.] Report on progress of research on porpoise mortality completed. September:18-19.
- [Everett, J.] Behavior portion of chartered porpoise/tuna cruise completed. November:14-16, 19-20.
- [Perrin, W. F.] Small cetacean research proposal prepared for FAO. April:11.
- [Perrin, W. F.] Soviet scientists visit Center to work on tropical delphinids under the auspices of U.S.-U.S.S.R. Environmental Protection Agreement. May:8-9.
- [Perrin, W. F.] Porpoise behavior cruise in progress. October:16-17.

1977

- Anon. NMFS scientists on NOAA research vessel, Jordan, to study effects of changes in oceanographic regime on porpoise distribution. September:23-24.
- Anon. Leader of Porpoise/Tuna Interaction Program transfers to Washington, D.C.; porpoise/tuna research at Center to be reorganized. October:21-22.
- Anon. NMFS to charter tuna vessels for porpoise gear research. October:22.
- Anon. NOAA research vessel, Jordan, at mid-point of porpoise/oceanography cruise in eastern tropical Pacific. October:22-23.
- Anon. Research planned for tuna industry dedicated vessel. October:23-24.
- Anon. Tuna seiner committed to porpoise/tuna research for one year. November:16-17.
- Anon. Plan for porpoise observer allocation during 1978 developed. November:17-18.
- [Au, D. W. K.] Preliminary results of porpoise oceanography cruise aboard Jordan reported. December:19-20
- [Barham, E. G.] 1977 porpoise stock assessment aerial survey completed. June:19-21.
- [Everett, J.] NMFS and industry-sponsored Porpoise Rescue Foundation map joint porpoise research at meeting. January:14.
- [Everett, J.] Aerial-ship survey to estimate porpoise populations in progress. January:14-15.
- [Everett, J.] Industry offers to dedicate vessels to porpoise research. January:15.
- [Everett, J.] Workshop to assess research related to the tuna/porpoise interaction problem held at Center. February:19.
- [Everett, J.] Aerial survey of porpoise populations interrupted. February:19.
- [Everett, J.] Chartered tuna seiner with porpoise-saving gear aboard reports no roll-ups. June:22-23.
- [Everett, J.] Porpoise regulations economic impact statement updated. June:23.

- [Everett, J.] Gear research expert Richard McNeely retires from NMFS. July/August:23-24.
- [Everett, J.] Federal hearings on NMFS-sponsored tuna regulations for 1978 held in San Diego. July/August:25.
- [Everett, J.] Staff members participate in Federal hearings on 1978 porpoise/tuna regulations. September:24.
- [Jennings, J.] Porpoise tagging workshop held at the Southwest Fisheries Center. April:21.
- [Jennings, J.] Arrangements made to test satellite-linked porpoise tracking system. May:11-12.
- [Jennings, J.] Preliminary tests conducted of satellite-linked tracking system to locate porpoise. June:22.
- [Jennings, J.] Plans made for porpoise tagging study. July/August:26.
- [Jennings, J.] Tagging program. July/August:26.
- [Perrin, W. F.] Morphological differences found between porpoise populations. October:23.
- [Powers, J.] Workshop held for planning analysis of data collected on porpoise population assessment surveys. July/August:25.
- [Powers, J.] Workshop meeting held to discuss methodologies for analyzing porpoise survey data. December:22-23.

1978

- Anon. Dedicated tuna vessel departs on first cruise. January:15.
- Anon. Research chiefs selected for Marine Mammal Program [Perrin and Powers]. March:17.
- Anon. First research cruise completed aboard dedicated tuna vessel. March:18.
- Anon. Second research cruise of dedicated vessel in progress. April:27.
- Anon. Cruise three and four of dedicated vessel planned. April:28.
- Anon. Second research cruise of dedicated vessel nearing completion. May:22-23.
- Anon. Dedicated vessel, Queen Mary, departs on third cruise. June:25-26.
- Anon. Behavioral studies of porpoise planned on dedicated vessel cruise. July:26.
- Anon. Dedicated vessel Queen Mary completes fourth cruise. September:22-24.
- Anon. Queen Mary departs on final cruise. November:25.
- Anon. Documentation manual on porpoise mortality nears completion. November:26.
- [Coe, J. M.] Porpoise containment system undergoes testing at Mississippi facility. January:14-15.
- [Coe, J. M.] Installation of super aprons continues. November:25.
- [Jennings, J.] Tags for marking individual porpoise tested at Sea World. January:16-17.
- [Jennings, J.] New porpoise impoundment system tested for dedicated vessel. February:19.
- [Jennings, J.] New porpoise tagging device selected. February:19-20.
- [Jennings, J.] Prototype tags tested on captive porpoise found unsatisfactory. March:18-19.
- [Jennings, J.] Progress made in research on porpoise tag design. May:23.
- [Jennings, J.] Experimental porpoise tagging conducted. June:26-27.

- [Jennings, J.] Radio transmitters for tracking porpoise schools tested. July:25.
- [Lo, N.] Procedures established for estimating and monitoring porpoise mortality during 1978. April:29-30
- [Myrick, A. C.] Research begun to improve age-determining techniques in porpoise. February:18.
- [Myrick, A. C.] Technique developed to determine visible layers in tooth structure of dolphins for age determination. March:19.
- [Myrick, A. C.] Interest high in conferences on age determination of odontocete cetaceans. April:28-29.
- [Myrick, A. C.] Final preparations made for international aging conference. May:23.
- [Myrick, A. C.] Improvements made in aging techniques for odontocetes. October:19.
- [Oliver, C. W.] Data base management activities progressing well. July:25-26.
- [Oliver, C. W.] Porpoise observer data bases improved. November:26.
- [Perrin, W. F.] Center to sponsor age determination conference and workshop on toothed whales. January:15.
- [Perrin, W. F.] Conference on age determination scheduled at Southwest Fisheries Center. February:20.
- [Perrin, W. F.] Planning continues for conference on age determination scheduled at Southwest Fisheries Center. March:19.
- [Perrin, W. F.] Program leader participates in international whaling conferences. June:29.
- [Perrin, W. F.] Conference on age determination in marine mammals held in La Jolla. September:22.
- [Powers, J.] Contract awarded for development of experimental design for mark-recapture studies. July:20.
- [Powers, J.] Review of porpoise assessment surveys. September:24.
- [Powers, J.] 1979 porpoise population survey planned. November:25-26.
- [Stuntz, W.] Porpoise blood samples analyzed for indication of stress. January:16.
- [Stuntz, W.] NMFS scientists to test theory that porpoise schools have learned to avoid tuna boats. July:25.
- [Stuntz, W.] Porpoise behavior cruise on Regina Maris ends. October:19-20.
- [Stuntz, W.] Porpoise school structure study to begin. October:20.

1979

- Anon. Weekly estimates of porpoise kill started for 1979 tuna season. March:22.
- Anon. Historical porpoise population size. March:22-23.
- Anon. Effectiveness of porpoise release regulations analyzed. March:23.
- Anon. Research vessel survey of porpoise completed. March:23.
- Anon. 1979 porpoise population surveys completed. April:18-19.
- Anon. Estimated kill rate of dolphins decreases slightly in 1979.
- Anon. Weekly estimates of porpoise kill continued. May:19.
- Anon. Porpoise mortality increases during first half of 1979. June:22.
- Anon. Porpoise mortality estimates compared. July:21.
- Anon. SWFC staff participates in marine mammal conference. October:20-22. [Includes abstracts of papers by Jennings (2), Stuntz and Perrin, and Myrick].

Anon. Chartered tuna seiners sails[sic] to eastern tropical Pacific. October:22.

Anon. Investigation underway to improve method for monitoring porpoise mortality. October:23-24.

Anon. Porpoise parameter project. October:24.

Anon. Ecosystems dynamics project. October:24.

Anon. Data editing group. October:25.

Anon. Data management group. October:25.

Anon. Theoretical sampling program designed to classify size range of tunas attracted to logs. November:24.

Anon. Population parameter project. November:24.

Anon. Staff concentrates efforts on preparation of Draft Environmental Impact Statement on proposed porpoise regulations. December:10.

[Au, D. W. K.] Plans completed for 60-day porpoise survey cruise. December:11.

[Coe, J. M.] Computer simulation of purse seining operation being developed. January:21.

[Coe, J. M.] Contract for a computer simulation of purse seine dynamics awarded. March:21.

[Coe, J. M.] Cooperative gear research cruise departs. May:19.

[Coe, J. M.] Fishing boats with misfitted "super aprons" sought. June:23.

[Coe, J. M.] Net deepening experiment continues. July:22-23.

[Coe, J. M.] Second leg of cooperative research cruise commences. August:23.

[Coe, J. M.] Dynamics of tuna purse seine studied in local waters. September:26.

[Coe, J. M.] Cooperative net-deepening experiment completed. October:23.

[Jackson, T.] Aerial survey team returns. May:20.

[Jennings, J.] Satellite-linked porpoise tracking system to be tested. January:22.

[Jennings, J.] Reward offered for return of porpoise tags. January:24-25.

[Jennings, J.] Tagging program results reported at two conferences. March:21-22.

[Jennings, J.] Plans progress for tracking dolphins by satellite. April:19.

[Jennings, J.] Satellite-linked porpoise tracker tested. June:23.

[Jennings, J.] 10% resight results in porpoise tagging project. July:22.

[Jennings, J.] Radio-tagged dolphin resighted in Hawaii. August:23.

[Jennings, J.] Arrangements underway for porpoise tracking with TIROS satellite. September:28.

[Jennings, J.] Radio tracking of Hawaiian spinner dolphins begins. October:23.

[Jennings, J.] Decision made to continue satellite-linked porpoise transmitter project. December:10-11.

[Myrick, A. C.] Dolphin aging experiment to be carried out at Hubbs-Sea World Research Institute. April:19-20.

[Myrick, A. C.] Porpoise studies begun to correlate tooth layers with time. July:22.

[Myrick, A. C.] Dolphin aging technique developed. November:24-25.

[Myrick, A. C.] Tetracycline used to calibrate tooth layers in *Tursiops* with time. December:11.

[Oliver, C. W.] Documentation of 1979 porpoise observer data editing program continues. May:20.

[Perrin, W. F.] Papers on odontocete-aging conference prepared for publication. January:21.

- [Perrin, W. F.] Manuscripts prepared for status of porpoise stocks workshop. August:22-23.
- [Perrin, W. F.] Soviet scientist to work at Center for three months. September:26-27.
- [Perrin, W. F.] Chromosomal banding study begun. September:27.
- [Perrin, W. F.] University of Oklahoma to re-examine geographical variation in ETP dolphins. September:27.
- [Perrin, W. F.] Age determination volume nears publication. November:26.
- [Perryman, W. L.] Investigation of porpoise school size planned by IATTC. July:21.
- [Powers, J.] Survey of porpoise populations in the eastern Pacific begins. January:22-23.
- [Powers, J.] Eastern tropical Pacific ecosystem modelled. January:23-24.
- [Powers, J.] Preparation started for porpoise stock assessment workshop. May:19-20.
- [Powers, J.] Preparations made for porpoise stock assessment workshop. July:21.
- [Smith, T.] Workshop held to assess status of porpoise stocks in eastern tropical Pacific-- Preliminary reports indicate several stocks at lower levels than in 1976. August:20-21.
- [Smith, T.] Documents on porpoise population size and incidental kill prepared for workshop. August:21-22.
- [Smith, T.] Drafting of SOPS workshop report continues. September:28.
- [Stives, R.] Data base for porpoise tag returns and resightings established. March:22.
- [Stuntz, W.] Workshop planned on physiological effects of chase and capture on dolphins. January:22.
- [Stuntz, W.] Hawaiian spinner behavior to be studied. March:21.
- [Stuntz, W.] Workshop held on effects of chase and capture on porpoise. May:18.
- [Stuntz, W.] Study of porpoise blood chemistry planned, Stuntz visits Hawaiian researchers. July:21-22.
- [Stuntz, W.] Workshop reports being completed. July:23.

1980

- [Au, D. W. K.] NOAA research vessels work together to investigate porpoise density gradient. January:23.
- [Au, D. W. K.] Porpoise survey cruise continues. February:23.
- [Au, D. W. K.] Porpoise survey cruise completed. March:20.
- [Au, D. W. K.] Knowledge of equatorial cetacean communities extended on Oceanographer survey. May:28.
- [Au, D. W. K.] Two Soviet marine mammalogists participate in Jordan research cruise. July:17.
- Anon. IATTC data on porpoise sets evaluated for inclusion in porpoise hearing record. May:28-29.
- [Coe, J. M.] Seminar describes computer simulation of purse seining. May:27.
- [Coe, J. M.] Fishing methods and gear discussed. June:20-21.
- [Coe, J. M.] Contract awarded for extending computer simulation of purse seining. August:20.
- [Coe, J. M.] Local segment of purse-seine charter for gear studies completed. September:18-21.
- [Coe, J. M.] Technician returns from 3-month tuna cruise. December:20-21.

[Coe, J. M.] Southampton College intern completes SWC assignment. December:21.

[Coe, J. M.] Sundown sets by tuna purse seiners analyzed. December:21.

[Jennings, J.] Female spotted dolphin successfully tracked by radio. May:26-27.

[Jennings, J.] Satellite-linked radio tracking experiments completed. June:21.

[Jennings, J.] Satellite-linked transmitters pass acceptance tests. June:21.

[Jennings, J.] Mammal and tracking project continues. July:20.

[Jennings, J.] Program initiated to correct manufacturing problems with dolphin disc tag. October:20-21.

[Jennings, J.] Materials for fabricating dolphin disc tags being examined. November:31-32.

[Jennings, J.] Modification of satellite-linked transmitters for dolphins in progress. November:32.

[Lo, N.] Development of analysis programs to estimate porpoise mortality nears completion. July:17.

[Miller, R.] 1979 porpoise life history data bases nearing completion. March:20.

[Myrick, A. C.] Study shows yearly accumulation of dentinal tissue in dolphins decreases at a uniform rate with age. April:24.

[Myrick, A. C.] First year of data on tetracycline labeling of dolphin teeth indicates lunar rhythms. June:21-22.

[Myrick, A. C.] Studies of layering rates in teeth of Hawaiian spinners progress. June:22.

[Myrick, A. C.] Enamel layers in dolphin teeth may help scientists to estimate gestation periods. July:17-18.

[Myrick, A. C.] Tooth layering rate project on Hawaiian spinner dolphins progresses. July:18.

[Myrick, A. C.] Hawaiian spinner dolphins injected with tetracycline for tooth-layer calibration. August:20.

[Myrick, A. C.] Work on age determination progresses for large samples of dolphins. September:17-18.

[Myrick, A. C.] 18-month data being analyzed for *Tursiops* tooth-layer monitoring project. October:21.

[Myrick, A. C.] Time-layer base-line data developed for *Stenella* spp. October:21.

[Myrick, A. C.] Work proceeds on reevaluation of age for dolphin subsamples. November:30-31.

[Myrick, A. C.] Staff of marine mammal age determination laboratory augmented to process and read age samples of dolphin teeth. December:19.

[Myrick, A. C.] Page proofs received for aging conference volume. December:19.

[Oliver, C. W.] TDP activities assigned to specific computer accounts. August:16-17.

[Perrin, W. F.] Preparations continue for March hearings on new regulations governing tuna/porpoise fishing, 1980-1983. January:21-22.

[Perrin, W. F.] Staff prepares testimony for forthcoming hearings on porpoise regulations. February:25.

[Perrin, W. F.] Morphological variation studied in the bottlenose dolphin. May:26.

[Perrin, W. F.] Cetacean field guide revised. May:26.

[Perrin, W. F.] Study of geographical variation in *Stenella* species nears completion. May:27.

- [Perrin, W. F.] Galleys received for age determination conference and workshop papers. July:18.
- [Perrin, W. F.] SWFC scientist appointed to advisory committee. September:17.
- [Perryman, W. L.] Photographic estimates of porpoise herd size show good correlation with actual counts. February:22.
- [Perryman, W. L.] Potential aircraft evaluated for aerial survey. February:22-23.
- [Perryman, W. L.] Pembroke aircraft evaluated for use in marine mammal research. August:15-16.
- [Perryman, W. L.] IATTC/SWFC photographic survey continues. November:32.
- [Perryman, W. L.] Joint IATTC/SWFC aerial photographic study of porpoise populations completed. December:17-18.
- [Pitman, R.] Extensive study of equatorial cetaceans conducted from NOAA research vessel, Oceanographer. April:23-24.
- [Ralston, F.] Editing of 1979 porpoise data completed. March:21.
- [Ralston, F.] Observer data forms completed for 1981 season. August:16.
- [Smith, T. D.] Assessment made of potential computer services. February:23.
- [Smith, T. D.] Administrative law judge presides at porpoise hearings. March:20.
- [Smith, T. D.] Decision by administrative law judge due in early July. April:22.
- [Smith, T. D.] Study of marine mammal sighting and effort data underway. April:23.
- [Smith, T. D.] Population dynamicist is new member of Marine Mammal Assessment and Monitoring staff [D. P. DeMaster]. February:23.
- [Smith, T. D.] New computer program - EVOLVE. September:23.
- [Stuntz, W.] Blood sampling of captive Hawaiian spinner dolphins completed. February:26.
- [Stuntz, W.] Center cetologists attend meeting on behavior and intelligence in dolphins. May:27.
- [Stuntz, W.] Chemistry of dolphin blood studies for indications of capture stress. June:22.
- [Stuntz, W.] Serum chemistry studies of dolphin blood continues. July:20-22.
- [Stuntz, W.] Report on behavior of Hawaiian spinner dolphins received. August:19.
- [Stuntz, W.] Scientists begin behavior studies of common dolphins in the tuna purse seine fishery. August:19.
- [Stuntz, W.] Student intern assists biologist with common dolphin mortality study. September:21-22.
- [Stuntz, W.] Study of the age and sex structure of porpoise schools underway. December:18.
- [Stuntz, W.] Manuscript on energetics of spinner porpoise in preparation. December:18.
- [Wahlen, B.] Computer programs used to monitor porpoise mortalities revised. January:23.

1981

- Anon. Early porpoise observer data being coded. January:24.
- Anon. Contract report received from University of Hawaii. February:18.
- Anon. 1980 observer data editing completed. March:27.
- Anon. Computer conversion underway. March:27-28.

Anon. International meeting on marine mammal/fisheries interactions held at La Jolla. April:21-22.

Anon. Data access on and conversion to the VAX system explored. May:24-25.

Anon. Informal review of blood hormone studies held. September:14.

Anon. Center scientists attend marine mammal conference in San Francisco. December:13.

[Au, D. K. W.] Porpoise sighting cruise underway. January:24.

[Au, D. K. W.] Third EPOCS cruise completed by SWFC observers. March:27.

[Au, D. K. W.] Fourth EPOCS cruise underway. May:24.

[Coe, J. M.] Field test verifies formula for tie down of net during backdown. January:21.

[Coe, J. M.] Progress made in "sundown sets" analysis. February:16.

[Coe, J. M.] Sundown sets analysis. March:25.

[Coe, J. M.] Analysis of "sundown sets" nears completion. April:23.

[Coe, J. M.] SWFC scientists present papers at Alternative Fishing Methods Workshop. May:20-21.

[Coe, J. M.] Analysis of "sundown sets" completed. July:26.

[Coe, J. M.] SWFC assists with installation of dolphin safety equipment. July:26.

[Coe, J. M.] Research to reduce dolphin mortality is concluded. August:23.

[DeMaster, D. P.] Two manuscripts completed on population dynamics of porpoise. January:23.

[DeMaster, D. P.] Working paper presented at marine mammal/fishery interaction meeting. March:24-25.

[DeMaster, D. P.] Techniques to estimate average age of marine mammals at sexual maturity reviewed. November:18-19.

[Holt, R.] Test of marine mammal aerial survey assumptions underway. February:18-19.

[Holt, R.] 1981 marine mammal aerial survey completed. April:26.

[Holt, R.] Dr. R. Holt participates in IATTC meeting in Nicaragua.

[Jennings, J.] Manuscript completed on development of the porpoise school impoundment system. January:22.

[Jennings, J.] Evaluation of fluorescent pigment for dolphin tagging discs completed. February:17.

[Jennings, J.] Dolphin simulation test of the satellite marine mammal transmitter performed. March:23-24.

[Jennings, J.] Conference held on the use of remote sensing for tracking marine mammals. March:24.

[Jennings, J.] Marine-mammal satellite transmitter tested on simulated dolphins. April:24-25.

[Jennings, J.] Plans made for final testing of satellite-linked marine mammal transmitter. May:21-22.

[Jennings, J.] Dolphin satellite tracking experiment successfully completed. July:19-23.

[Jennings, J.] Efforts underway to wrap up dolphin tagging tracking project. July:27.

[Jennings, J.] Comprehensive report on tagging, freeze branding, and tattooing of delphinids completed. August:22.

[Myrick, A. C.] Test software program received for computer enhancement of layers in dolphin teeth. January:22-23.

[Myrick, A. C.] Layering rate in teeth of captive spinner dolphins monitored for one year. January:23.

[Myrick, A. C.] Batch-preparation of teeth from spotted dolphins continues. February:17.

[Myrick, A. C.] Software debugged for micro-digital enhancement of dolphin tooth layers. February:18.

[Myrick, A. C.] Study to age dolphins using amino acid racemization completed. April:23.

[Myrick, A. C.] Age determination on spotted dolphin subsample progresses. May:22.

[Myrick, A. C.] Computer coding format developed for dolphin age data. September:18.

[Myrick, A. C.] Special issue on age-determination published. July:27.

[Myrick, A. C.] Study completed of time calibration of dental layers in tetracycline-labeled Hawaiian spinner dolphin. October:24-25.

[Myrick, A. C.] Monthly growth rates, month of birth determined for northern offshore spotted dolphins. November:20.

[Oliver, C. W.] Documentation of porpoise observer data. March:26.

[Oliver, C. W.] Generalized computer editing programs. March:26.

[Perrin, W. F.] SWFC to co-host conference on cetacean reproduction. July:24.

[Perrin, W. F.] Planning progresses for conference on cetacean reproduction. August:22-23.

[Perrin, W. F.] Review of dolphin reproductive parameters underway. September:13-14.

[Perrin, W. F.] Cetacean reproduction conference and workshop held. December:11-12.

[Perrin, W. F.] SWFC hosts international symposium on cetacean reproduction. November:18.

[Perryman, W. L.] Photographs from aerial study of porpoise schools analyzed. April:25-26.

[Perryman, W. L.] Aerial photographs of dolphin schools analyzed. July:28.

[Ralston, F. M.] Porpoise/tuna observer data encoded. May:25.

[Ralston, F. M.] 1981 porpoise observer data processed. May:25.

[Shay, T.] Computerized address file developed for marine mammal mailings. January:22.

[Smith, T. D.] Tuna/porpoise-related data prepared for computer usage. July:25.

[Smith, T. D.] Computer programs for porpoise data management system updated. July:28.

[Smith, T. D.] Porpoise kill monitoring system converted to VAX. August:23.

[Smith, T. D.] Relative porpoise abundance studies proceed. August:24.

[Smith, T. D.] Contract awarded to develop marine mammal sighting methodology. September:19.

[Smith, T. D.] Porpoise kill monitoring system now on VAX. September:19.

[Smith, T. D.] SWFC access to INFONET terminated. September:19.

[Smith, T. D.] Symposium volume on population dynamics of large mammals published. October:22.

[Smith, T. D.] Total kill of dolphins estimated for remainder of year. October:22-23.

[Smith, T. D.] Tuna boat observer data being entered on VAX. October:23.

[Smith, T. D.] Program scientists present papers at cetacean reproduction conference. November:20.

[Smith, T. D.] Study of relative abundance of dolphins reviewed. November:21.
 [Smith, T. D.] Preliminary estimate of total dolphin mortality for 1981 completed.
 December:13.
 [Stuntz, W.] SWFC scientist lectures at midwestern universities. February:17.
 [Stuntz, W.] Manuscript on blood serum drafted. March:25.
 [Stuntz, W.] Age structure of spotted dolphin schools analyzed. April:25.
 [Stuntz, W.] Stuntz attends conference on the ethology and behavioral ecology of fishes.
 May:23.

1982

Anon. Meeting held with Marine Mammal Commission representatives. February:23.
 Anon. Biweekly monitoring of 1982 porpoise mortality begins. April:28.
 Anon. Annual revision to porpoise editing programs begins. April:29.
 Anon. Major software package documented. April:29.
 Anon. 1982 cumulative dolphin mortality estimate updated. May:19.
 Anon. Estimating precision and possible biases in dolphin age determination project.
 June:39-40.
 Anon. Marine Mammal Commission reviews monk seal and tuna-porpoise programs.
 August:19-20.
 Anon. Precision of ageing technique tested. October:25.
 Anon. Specimens received for life history analysis. December:19.
 Anon. NRC Fellow completes stay at SWFC [K. Radway Allen]. December:20.
 [Dizon, A. E.] DNA used to analyze genetic variability in tuna [and dolphins].
 December:20-21.
 [Hohn, A.] Age determination and vital rates of northern offshore spotted dolphins--an
 overview. May:16-18.
 [Holt, R.] Research cruise to test dolphin-sighting methods. May:19.
 [Jennings, J.] Report published on dolphin tagging, marking, and tattooing research.
 January:21-22.
 [Jennings, J.] Manuscript for "OCEANS 82" conference prepared. June:36-37.
 [Jennings, J.] Jennings presents paper at Oceans '82 conference. September:25.
 [Myrick, A. C.] Tooth-reading record computer files created. February:21.
 [Myrick, A. C.] Manuscript completed on fine layering in mammalian hard tissues.
 March:34.
 [Myrick, A. C.] Work proceeds on age determination of spotted dolphins. April:27-28.
 [Myrick, A. C.] Preliminary data on female northern offshore spotted dolphin evaluated.
 July:21-22.
 [Myrick, A. C.] Preliminary age analysis completed on spotted dolphin kill samples;
 vital-rates study underway. September:23.
 [Myrick, A. C.] Preparation completed and female age determination begun on sample of
 1981 spotted dolphin teeth. November:18.
 [Perrin, W. F.] U.S. and Soviet scientists collaborate on dolphin research. January:20-
 21.
 [Perrin, W. F.] New studies initiated for 1985 dolphin stocks assessment. March:31.
 [Perrin, W. F.] SWFC scientist to visit Soviet institute. April:25.

[Perrin, W. F.] Center scientist chairs International Whaling Commission meeting. July:22-23.

[Perrin, W. F.] Staff scientists present papers at international mammalogy congress. August:18-19.

[Perrin, W. F.] SWFC scientist visits Soviet Union. September:24.

[Perrin, W. F.] Dolphin distribution reviewed. November:17.

[Ralston, F.] Status of tuna/porpoise data. August:21.

[Smith, T. D.] Dr. Jay Barlow joins staff. February:23.

[Smith, T. D.] Porpoise observer data edited. February:23.

[Smith, T. D.] NOAA Corps officer reassigned [Perryman]. February:24.

[Smith, T. D.] New computer program for editing dolphin mortality data initiated. July:26-27.

[Perrin, W. F.] Proceedings of cetacean reproduction conference being prepared. February:21.

[Ralston, F. M.] Porpoise data base conversion completed. January:23-24.

1983

Anon. Surveyor departs for ETP. February:17-19.

Anon. Three papers on spotted dolphin reproduction completed. October:21-23.

Anon. Bioenergetics model of co-schooling tuna and dolphins planned [E. Vetter hired]. November:31.

Anon. Biennial conference held on biology of marine mammals [abstracts by Hohn and Reilly]. November:31-33.

Anon. Panels review dolphin abundance and work on kill estimates. December:13-14.

[Barlow, J.] Determination made of relative dolphin species proportions in the ETP. April:14.

[Barlow, J.] Biased mortality rates examined in marine mammals. April:14-15.

[Dizon, A. E.] mtDNA isolation techniques evaluated on fresh and frozen samples. January:12-13.

[Dizon, A. E.] Sample of cetacean tissues obtained for mtDNA analysis. April:25.

[Dizon, A. E.] DNA samples prepared from tissues of offshore northern and southern spotted dolphin population. June:16.

[Dizon, A. E.] DNA samples prepared from tissues of offshore northern and southern spotted dolphin population indicate high degree of relatedness. July:16.

[Dizon, A. E.] DNA samples completed for about half of the delphinid samples. August:17.

[Dizon, A. E.] Additional DNA samples prepared from eastern and whitebelly spinners. September:14-16.

[Hohn, A.] Age data for 1981 female spotted dolphins ready. February:16.

[Hohn, A.] Manuscript on growth in the first year of the offshore spotted dolphin completed. May:22-23.

[Holt, R.] 1983 marine mammal cruise on Jordan underway. January:19.

[Holt, R.] Marine mammal census continues in ETP. February:24.

[Gerrodette, T.] New marine mammal assessment procedure evaluated. February:22-23.

[Myrick, A. C.] Manuscript completed documenting real-time deposition of tooth layers in Hawaiian spinner dolphins. January:15-16.

[Myrick, A. C.] Manuscript completed on parturition marks in teeth of female spotted and spinner dolphins. February:16-17.

[Parks, W.] R/V David Starr Jordan returns from cruise to the South Pacific. April:16-22.

[Parks, W.] Panel of experts meet to review SWFC manuscripts on dolphin species proportions and school size. August:19-21.

[Perrin, W. F.] First "pre-SOPS" panel held. January:18.

[Perrin, W. F.] SWFC scientists attend Marine Mammal Commission meetings. February:21.

[Perrin, W. F.] Dolphin specimens prepared for studies of stock identity. August:19.

[Reilly, S. B.] Scientific review panel meets on age determination. February:16.

[Reilly, S. B.] Multispecies stock assessment project started. April:23-25.

[Reilly, S. B.] New research task holds planning session. May:24.

[Reilly, S. B.] Theoretical studies of the gross annual reproductive rates of marine mammals completed. November:31.

[Sloan, P. A.] Reorganization of dolphin tooth collection completed. January:16.

[Sloan, P. A.] Preparation of teeth of ETP spinner dolphins begun. January:16.

1984

Anon. Final pre-SOPS (Status of Porpoise Stocks) meetings held. February:16-18.

Anon. Final meeting of pre-Sops panels held. March:20-21.

Anon. Dolphin life history data base reviewed and updated. March:25-26.

Anon. Data provided to SW Region. April:19.

Anon. Reorganization of Oceanic Fisheries Resources Division receives Washington approval. [Perrin appointed Senior Scientist]. May:16-17.

Anon. NMFS-sponsored symposium results in publication of book on reproduction in cetaceans. August:24.

Anon. Guidelines completed for reducing dolphin kills during tuna purse seining. December:10-13.

[Coan, A.] Tuna/dolphin editing software written. June:21.

[Dizon, A. E.] Progress reported in mtDNA studies. March:15-16.

[Dizon, A. E.] Progress in the mtDNA laboratory reported. July:30-31.

[Dizon, A. E.] Visiting scientist demonstrates mitochondrial DNA analysis techniques to laboratory staff. August:22-23.

[Dizon, A. E.] Mitochondrial DNA workshop held. October:16-17.

[Dizon, A. E.] Cephalorhynchus and Delphinus compared. October:17.

[Dizon, A. E.] Use of mtDNA in stock differentiation investigated. November:18-19.

[Hedgepeth, J.] Data analyzed on dolphins tagged in ETP. November:17-18.

[Hohn, A. A.] Analysis completed of sexual maturity in male spotted dolphins. February:18-19.

[Hohn, A. A.] Photogrammetric procedures used to investigate growth rates in captive dolphins. April:16-17.

[Hohn, A. A.] Analysis of reproductive seasonality in spotted dolphins completed. June:20-21.

[Hohn, A. A.] Wild dolphins of known age used to test age determination technique. November:20-21.

[Jackson, A.] Marine mammal data base revised and updated. April:19.

[Jackson, A.] Marine mammal data base revised. June:21.

[Jackson, A.] Status of 1984 tuna/dolphin observer data reported. September:18-19.

[Jackson, A.] Status of 1984 tuna/dolphin observer data. October:18-19.

[Jackson, A.] 1983 bridge log data base updated. October:19.

[Jackson, A.] Status of 1984 tuna/dolphin observer data reported. November:21-22.

[Myrick, A. C.] Preparation of male spinner tooth sample begins; age estimates of females continues. February:19.

[Myrick, A. C.] Analyses begun on tetracycline-labeled dolphin teeth. March:18.

[Myrick, A. C.] SWFC scientist participates in joint US-USSR research in Moscow. May:23.

[Myrick, A. C.] Time significance of layering in some mammalian hard tissues and its application in populations studies. August:23.

[Myrick, A. C.] Progress report: US-USSR research on reproduction layers in cetacean teeth. August:23-24.

[Parks, W.] IATTC data added to NMFS sightings data base. March:28.

[Perrin, W. F.] Computer-based osteological specimen catalog developed. March:19.

[Perrin, W. F.] Soviet scientist visits SWFC for joint research. April:15-16.

[Perrin, W. F.] Consignment of dolphin specimens for stock identity studies nears completion. August:25.

[Reilly, S. B.] Staff of new research task samples squid population. March:24-25.

[Reilly, S. B.] Meeting held on squid assessment. August:20-22.

[Reilly, S. B.] Scientist investigates large-scale spatial-temporal patterns in distribution of dolphins. November:16-17.

[Sloan, P. A.] Database established for spinner dolphin age estimates. May:23.

[Tumosa, T.] Status of 1984 dolphin observer data reported. June:21.

[Vetter, E.] Hydrodynamic performance and thermoregulation in the spotted dolphin investigated. March:21-24.

[Vetter, E.] Study shows that swimming helps dolphins stay warm. November:20.

[Wahlen, B.] Observer effect analysis completed. May:20-21.

1985

Au, D. Relationships among seabirds, tuna and dolphins studied. March/April:23.

Au, D. Interactions between seabirds and tunas and dolphins described. May/June:19-20.

Dizon, A. Production analysis of spinner mtDNA completed. January/February:28.

Dizon, A. Genetic map of dolphin DNA completed. March/April:30.

Dizon, A. Use of mtDNA to discriminate spinner porpoise stocks. November/December:25-26.

Holt, R. Cast system used to measure distance from ship to marine mammals. May/June:17-18.

Jackson, A. 1984 tuna/dolphin data bases completed. March/April:33-34.

Myrick, A. Test validates age estimating method for bottlenose dolphins. January/February:28-29.

Myrick, A. Tooth preparation and age estimates completed for 2600 female spinner dolphins. March/April:30.

Myrick, A. Staff scientists participate in international congress. July/August:13-14.

Parks, W. SWFC plans a program of research vessel surveys to monitor abundance of porpoise in the ETP. November/December:19-20.

Parks, W. Meeting held to arrange helicopter operations on the *David Starr Jordan*. November/December:20-21.

Perrin, W. Revision of taxonomy of spotted dolphins nears completion. January/February:29-32.

Reilly, S. Spatial/temporal patterns in distribution of dolphins studied. March/April:26-29.

Reilly, S. Workshop held at Southwest Fisheries Center to plan analysis of tuna vessel observer data for monitoring dolphin populations. November/December:26-27.

Smith, T. Programs to display search patterns of tuna vessels developed. January/February:24-26.

Vetter, E. Simple energetics hypothesis may explain the tuna-dolphin association. March/April:31-32.

Walker, M. Correlations between location of pelagic animals and geomagnetic features sought. March/April:30-31.

Wallace, K. Dolphin mortality-monitoring system converted to La Jolla Standard microcomputer. May/June:23.

Wallace, K. Cruise tracks for dolphin surveys in the eastern tropical Pacific designed with the help of a computer. July/August:15.

1986

Aguilar, A. Nutritional status of spotted dolphins studied. March/April:18-19.

DeMaster, D. Estimates of porpoise mortality stratified by month. July/August:10-11.

DeMaster, D., P. Wade, D. Palka, T. Gerrodette and E. Edwards. Dolphin survey design workshop held. May/June:6-9.

Hohn, A. Large number of dolphins from a single school collected. January/February:13.

Hohn, A. New study investigates changes in life history parameters that correlate with fishing effort. May/June:15-16.

Hohn, A. Changes in sex ratio of spotted dolphins correlated with changes in fishing effort. September/October:16-18.

Holt, R. First cruise of a five-year program to monitor dolphin abundance completed. November/December:24-25.

Jackson, A. 1985 tuna/dolphin observer data base summarized. January/February:13-17.

Jackson, A. Dolphin life history databases updated. March/April:19.

Myrick, A. Handbook for dolphin sampling completed. May/June:15.

Stangl, P. ETP dolphin survey is underway. July/August:11-14.

Vetter, E. Study begins to assess utility of tuna-vessel observer data for determining long-term trends in dolphin abundance. July/August:8-9.

1987

Anon. Dr. Douglas P. DeMaster appointed Chief of Fishery-Marine Mammal Interactions Division at SWFC. March/April:8-9.

DeMaster, D. Methods to estimate ETP dolphin mortality in 1987 discussed. January/February:17-18.

Dizon, A. Mitochondrial DNA and the genetic structure of spinner dolphin stocks and schools studied. May/June:14-16.

Dizon, A. Manuscript on dolphin mtDNA completed. September/October:14-15.

Dizon, A. Fishery biologist to give talk on MtDNA. November/December:20-21.

Holt, R. Second annual survey to monitor dolphin abundance launched. July/August:9-11.

Myrick, A. C. Re-examination of early data prompts discoveries of stress disease in dolphins. July/August:11-12.

[Reilly, S. B.] Oceanographic data of the ETP collected during marine mammal cruises. March/April:9-13.

Reilly, S. B. Seasonal changes in dolphin distribution indicated by research vessel sightings. November/December:18-20.

Perryman, W. Military low altitude reconnaissance systems applied to dolphin count. January/February:23-25.

Stangl, P. SWFC program staff prepares for second survey to monitor porpoise abundance in ETP. March/April:15.

Vetter, E. Workshop held on tuna purse-seiner fishing effort: observers' perceptions. July/August:12-14.

1988

Akin, P. Tooth characters studied as clues to dolphin stock identification. March/April:4.

Barlow, J. Birth interval model developed for marine mammals. March/April:5-6.

Barlow, J. Aerial photographs taken to calibrate school size estimates. November/December:10-11.

Bernard, H. Types of optimum film determined for use during marine mammal cruises. March/April:4-5.

Chivers, S. Laboratory parameters studied as indicators of population status for northern offshore spotted dolphins. January/February:7-8.

Dizon, A. A new project initiated to study the stock concept. September/October:8.

Edwards, E. TOPS tracks tuna-dolphin trajectories. May/June:7-8.

Edwards, E. TOPS tests effects of non-randomness on line transect estimates of dolphin school abundance. July/August:10-12.

Edwards, E. Preliminary analysis of observer coverage options. September/October:9-10.

Fiedler, P. Oceanographic data analyzed to assess effects of habitat variability on distribution and abundance of dolphin stocks in ETP. January/February:6-7.

Fiedler, P. Dolphin ecosystem task prepares for 1988 ETP cruises. May/June:7.

Fiedler, P. 1988 MOPS environmental data collection completed.
November/December:13-14.

Holt, R. Analysis of 1986 research vessel data to detect trends in abundance of eastern tropical Pacific dolphins. January/February:4-5.

Myrick, A. Spotted dolphin teeth examined for clues of stock identity and history of past periods of stress. September/October:8.

Reilly, S. Distribution of dolphins in the eastern tropical Pacific. July/August:8-10.

Reilly, S. Dolphin habitat research continues. September/October:10-11.

Sexton, S. Third annual survey to monitor trends in dolphin abundance begins.
July/August:7-8.

Sexton, S. Third annual survey to monitor trends in dolphin abundance continues.
September/October:6-7.

Sexton, S. Dolphin stock assessment program MOPS 88 cruises completed.
November/December:11-13.

1989

Chivers, S. Life history parameters of ETP dolphin species examined as potential indices of population condition. August/September:7.

DeMaster, D. Reorganization of Fishery-Marine Mammal Interactions Division.
January/February:7-8.

DeMaster, D. Workshop held to assess the effects of using seal-control devices to herd schools of dolphins in the eastern tropical Pacific. November/December:5-6.

Dizon, A. Photographed cetacean schools counted. January/February:11-12.

Dizon, A. Photogrammetry program. May/June:9-10.

Dizon, A. Aerial photographs taken to calibrate school size estimates.
November/December:7-8

Edwards, E. Effects of dolphin group, percent coverage, and fleet size on estimates of dolphin mortality derived from tuna vessel observer data. March/April:9-10.

Fiedler, P. Environmental variability in the eastern tropical Pacific, 1986-1988.
March/April:10-11.

Hill, S. Dolphin stock assessment program MOPS 89 cruises completed.
November/December:6-7.

Myrick, A. Studies are under way on effects of seal bombs. July/August:5.

Reilly, S. Workshop held on estimating ETP dolphin mortality. [Contains abstracts by Coan et al., Edwards et al., Oliver and Edwards]. January/February:11.

Reilly, S. Eastern tropical Pacific cetacean habitat studies: species distributions and habitat variability. November/December:8.

Sexton, S. Report prepared on first 2 years of MOPS cruises for annual report to Congress. January/February:9-10.

Sexton, S. Monitoring trends in dolphin abundance in the eastern tropical Pacific using research vessels over a long sampling period: analyses of first three years of data.
May/June:10-11.

1990

- Akin, P. Impacts of changes in dolphin data gathering requirements are examined.
January/February:6-7.
- Chivers, S. Research plan integrates Division studies of population regulation in eastern tropical Pacific dolphins. January/February:7-8.
- Dizon, A. Molecular analysis of mtDNA types in exploited populations of spinner dolphins. March/April:8.
- Dizon, A. Dolphin tissue samples for use in stock identification collected.
November/December:9.
- Edwards, E. TOPS simulates research vessel estimates of dolphin school abundance.
March/April:9-10.
- Gerrodette, T. Third annual survey to monitor trends in dolphin abundance begins.
July/August:6-7.
- Gerrodette, T. Fifth annual survey to monitor trends in dolphin abundance completed.
November/December:7-8.
- Hohn, A. Using bioacoustics as a tool for differentiating dolphin stocks in the eastern tropical Pacific. July/August:7-8.
- Lennert, C. Management of ETP dolphins - observer coverage. March/April:9.
- Perryman, W. Photogrammetry - aerial photographs taken to calibrate school size estimation. November/December:8-9.
- Reilly, S. Computer program assists in environmental data acquisition and analysis for ETP dolphin habitat study. September/October:8-9.
- Reilly, S. 1990 MOPS environmental data collection completed.
November/December:9.

1991

- Bright, A. Biology Assessment Program. July/August:9.
- Chivers, S. Age at sexual maturity examined as a possible compensatory mechanism for offshore spotted dolphin. May/June:4-5.
- Chivers, S. 1990 incidental kill of small cetaceans in eastern tropical Pacific documented. May/June:5-7.
- Chivers, S. Biology Assessment Program. September/October:8.
- Chivers, S. Problems in using biological indicators to infer changes in population abundance for the eastern tropical Pacific dolphin species.
November/December:6.
- DeMaster, D. Reorganization of the Marine Mammal Division. January/February:7.
- Dizon, A. Stock definition paper submitted to the Journal of Conservation Biology.
January/February:9-11.
- Dizon, A. Molecular phylogeny of two forms of common dolphin.
November/December:5.
- Edwards, E. New program responsible for analyzing tuna vessel observer data, skipper performance, mortality comparability, and alternative gear research.
January/February:9.

Edwards, E. Fishery-dependent Assessment Program. September/October:9.

Edwards, E. Power to detect linear trends in dolphin abundance: estimates derived from tuna-vessel observer data 1975-1989. November/December:8.

Fiedler, P. Primary productivity of the eastern tropical Pacific Ocean. January/February:11-12.

Fiedler, P. Seasonal variability of eastern tropical Pacific surface waters. March/April:8-10.

Gerrodette, T. New analysis of 5 years of ETP dolphin data. March/April:10-11.

Gerrodette, T. Dolphin Stock Assessment Program. September/October:8.

Gerrodette, T. Trends in dolphin abundance in the eastern tropical Pacific: 1986-1990. November/December:7-8.

Gilpatrick, J. Variance of photo-imagery by readers. November/December:7.

Perryman, W. Aerial photographs provide data for stock identification. March/April:11-13.

Perryman, W. Photogrammetry Program. September/October:8.

Perryman, W. Use of aerial photogrammetry as a tool for assessing marine mammal populations. November/December:6-7.

Reilly, S. ETP Ecology Program. September/October:9.

Sisson, J. SWFSC FMMID biologists participate in Wildlife 2001: population conference in Oakland, California. July/August:4-6.

Sisson, J. Marine Mammal Division prepares for the Status of Porpoise Stocks Workshop. September/October:7-8.

Young, J. Alternative fishing methods program. July/August:6-8.

1992

Chivers, S. Marine mammal tagging and tracking workshop, Warrentown, Virginia. January/February:8.

Chivers, S., K. Peltier and S. Kruse. Incidental take of small cetaceans observed in the eastern tropical Pacific. May/June:6-8.

Dizon, A. Genetic studies of marine mammal stock structure. January/February:8-10.

Dizon, A. Genetics program passes two-year mark. November/December:8-10.

Edwards, E. Dolphin-safe research cruise to begin. September/October:7-8.

Edwards, E. Preliminary dolphin-safe project completed. November/December:6.

Fiedler, P. Habitat variability studied with color scanner data. September/October:8-9.

Gerrodette, T., P. Fiedler, A. Dizon and W. Perryman. Survey completed to assess status of central stock of common dolphins. September/October:5-7.

Edwards, E. Strategic plan prepared to develop and evaluate "dolphin-safe" methods. March/April:7.

Scott, M. Tracking study of dolphins and tuna. November/December:6-8.

Sisson, J. Research vessel survey to assess status of central stock of common dolphins begins. July/August:5-6.

Wade, P. and T. Gerrodette. Estimates made of cetacean abundance in the eastern tropical Pacific. May/June:8-9.

1993

Armstrong, W. Dolphin-safe cruise completed. November/December:10-11.

Chivers, S. Consumption of prey studied for eastern tropical Pacific spotted dolphins and yellowfin tuna. March/April:12.

Chivers, S. Individual-based model predicts biological indicators for delphinid populations. September/October:4.

Chivers, S. Spotted dolphins associated with tuna radiotracked in the eastern tropical Pacific. September/October:8.

Dizon, A. Mitochondrial DNA variation studied within and among populations of eastern tropical Pacific spinner dolphins. September/October:7.

Edwards, E. Study completed on allometry of energetics parameters in the spotted dolphin from the eastern tropical Pacific. March/April:8-9.

Edwards, E. Tuna discards studied from log, schoolfish, and dolphin sets by U.S. tuna purse seiners in the eastern tropical Pacific Ocean, 1989-1992. March/April:10-11.

Edwards, E. and C. Perrin. Effects of dolphin group type, percent coverage, and fleet size on estimates of annual dolphin mortality derived from 1987 U.S. tuna-vessel observer data. March/April:9-10.

Peltier, K. Prey occurrence studied in spotted dolphins from the eastern tropical Pacific. September/October:4-5.

Perryman, W. and R. Westlake. Central American spinner dolphin morphology and life history data taken from vertical aerial photographs. September/October:5.

Pitman, R. and L. Ballance. Seabird studies in the eastern tropical Pacific. January/February:5-7.

Sisson, J. 1993 common dolphin survey launched. May/June:6-7.

Wade, P. Population status estimated for northeastern offshore spotted and eastern spinner dolphins. September/October:2-3.

1994 (issued quarterly from this point on)

Edwards, E. Program's FAD projects reviewed, 1991-1994. First Quarter:5-8.

Edwards, E. Second dolphin-safe research workshop held March 14-17, 1994. Second Quarter:6-9.

1995

Edwards, E. Tuna-dolphin separation/attraction workshop held. Third Quarter:78.

Gerrodette, T. Status of dolphin stocks affected by the tuna purse seine fishery in the eastern tropical Pacific: a 36-year summary. Fourth Quarter:4.

1996

Dizon, A. Dried blood on fishery observer records could provide DNA for genetic analyses. Second Quarter:4.

V. UNPUBLISHED CRUISE REPORTS

(Listed under year of cruise rather than year of report. Does not include routine observer trips aboard commercial seiners)

1966

Perrin, W. F. Cruise on M/V *Conte Bianco* [July 10 - August 11 in ETP]. Memorandum to Acting Laboratory Director, Tuna Resources Laboratory, La Jolla, California, September 8, 1966. 2pp.

1968

Perrin, W. F. Cruise report - M/V *Carol Virginia* (commercial tuna seiner) [April 1-29 in ETP]. Memorandum to Director, Fishery-Oceanography Center, May 13, 1968. 2pp.

1969

Warner, R. R. Cruise report. M/V *Carol Virginia*. July 10-August 25, 1969 [off West Africa]. September 8, 1969. 3pp.

1970

Perrin, W. F. [*Conquest*, December 22, 1970, local waters off San Diego, to test inflatable gate in corkline]. Memorandum to Director, NMFS, FOC, through Leader, Operations Research Group. Subject: Porpoise rescue gear. December 31, 1970. 8pp.

1971

Evans, W. E. Notes on NMFS test and evaluation of methods to reduce porpoise fatalities associated with tuna purse seining operations. Vessel M/V *Westport* 7-8 IX 71. 15pp.

Leatherwood, J. S. Trip report, M/V *Nautilus*. Naval Undersea Center Technical Report.

Perrin, W. F. Memorandum to Director, Fishery-Oceanography Center. Subject: Results of trials with small-mesh webbing on schools of whitebelly porpoise by M/V *San Juan* [May 14-15, 1971; local waters off San Diego]. June 17, 1971. 2pp.

Perrin, W. F. Cruise report. M/V *Westport*, under charter by NMFS. September 7 and 8, 1971 [local waters off San Diego, to test experimental porpoise rescue methods - corkline gate and killer whale sounds - on schools of *Delphinus*]. 6pp.

Perrin, W. F. [not on cruise]. Cruise report. M/V *Queen Mary*, a commercial purse seiner of 540T fish capacity, under charter to NMFS. November 17, 1971 to December 16, 1971 [ETP, to test killer whale sounds and Medina panel, radio-track dolphins, tag dolphins with dart tags, inject dolphins with lead acetate to

calibrate age determination, examine structure of schools, collect data and specimens for studies of growth and reproduction]. 8pp.

1972

Perrin, W. F. [not on cruise]. Cruise report. M/V *Queen Mary*, 1972-1. January 2, 1972 - January 29, 1972 [ETP, to test modified net and killer whale sounds, collect data and specimens for studies of population biology, observe school movements through radio-tracking]. 4pp.

Perrin, W. F. [not on cruise], R. L. McNeely, D. B. Holts and J. M. Coe. Cruise report. M/V *Independence* on charter to NMFS (V. Guarrasi, Master). September 27 - October 29, 1972 [ETP, to inject dolphins with lead acetate, examine school structure, collect growth and reproductive data and specimens, collect heads for study of natural mortality caused by parasite, tag dolphins]. [Includes extensive behavioral notes]. 27pp.

1973

Anon. Cruise report. Charter vessel *John F. Kennedy*. [May 23 – June 5, 1973]. 11pp.

Holts, D. B. Cruise report: M/V *John F. Kennedy*, November 10 - December 15, 1973. 19pp. [Issued in 1974].

McNeely, R. L. Cruise report: M/V *John F. Kennedy*, May 23 to June 5, 1973. 14pp.

McNeely, R. L. Cruise report: M/V *Trinidad*, October 16 to November 11, 1973. 7pp. [Issued in 1974].

McNeely, R. L. Cruise report: M/V *Independence*, December 11 to December 17, 1973.

Whatne, F. Cruise report: M/V *Independence*, January 1 to February 13, 1973. 3pp.

1974

Anon. *Sea Treasure* cruise - 10/15/73-2/10/74. Pacific Tuna Development Foundation. 29pp.

Coe, J. M. [not on cruise; observer was W. F. Perrin]. Porpoise observer cruise summary. Porpoise cruise no. 61. M/V *Gina Karen*. January 16 - March 7, 1974 [commercial trip to ETP, with piggy-backed tagging operation]. 12pp.

Jurkovich, J. Cruise report: performance of the NMFS large volume net. M/V *South Pacific* (Ocean Fisheries Inc.). June 25, 1974 to September 1, 1974. 8pp.

McNeely, R. L. and D. B. Holts. Cruise report. M/V *South Pacific*. October 28 - December 1, 1974.

Twohig, D. J. Cruise report: M/V *J. M. Martinac*, October 30 to December 21, 1974. 6pp.

1975

Holts, D. B. Cruise report. R/V *David Starr Jordan*. October 5 to November 18, 1975. 7pp.

Jurkovich, J. E. Cruise report. M/V *Eastern Pacific*. September 29 to December 6, 1975. 6pp.

- McNeely, R. L. and J. M. Coe. Report of the chartered seiner *Bold Contender*. September 22 - December 4, 1975. 12pp.
- McNeely, R. L., J. M. Coe and F. M. Ralston. Cruise report. *Bold Contender*. September 22 - December 4, 1975. 13pp.
- [Patterson, P.] *Sea Treasure* cruise. October 15-December 10, 1974. [Chartered by Pacific Tuna Development Foundation, to explore tuna-seining prospects in central, south and western Pacific]. Living Marine Resources, Inc. 8pp.

1976

- Anon. Observations of porpoise by the *Apollo*, *Mary Elizabeth* and *Zapata Pathfinder*, during the course of a PTDF charter in 1976. Living Marine Resources, San Diego, California. 3pp.
- Au, D. W. K. Cruise report. NOAA Ship *Townsend Cromwell*. Cruise No. 68, January 5 to March 3, 1976. (Porpoise Cruise No. 168). [Dolphin population survey]. 16pp.
- Au, D. W. K. Cruise report. NOAA Ship *Surveyor* RP-5-76, eastern Pacific porpoise distribution - school characteristics study. November 15 to December 9, 1976. [Included photogrammetric work]. 3pp.
- Breiwick, J. M. Analysis of 1974-76 porpoise mortality data. U.S. Marine Mammal Commission, Contract MM6AC016. 51pp.
- Coe, J. M. and P. J. Vergne. Cruise report: M/V *Elizabeth C.J.* October 7 - December 9, 1976. 9pp. [Issued 1977].
- Holts, D. B. Cruise report. R/V *David Starr Jordan*, Cruise J-76-96 (105), Porpoise Cruise No. 207. October 5 to November 18, 1976. [Dolphin behavior research, M/V *Elizabeth C.J.*]. 5pp.
- Barham, E. G. Cruise report. R/V *David Starr Jordan*, Cruise J-61-1 (100), Porpoise Cruise No. 169. January 5 - March 2, 1976. [Dolphin population survey]. 37pp.
- Perryman, W. Results of *Oceanographer* DOMES Cruise, Leg 7. [Piggy-backed dolphin distribution survey]. Memorandum to Bill Fox, Southwest Fisheries Center, September 2, 1976. 3pp.

1977

- Anon. Tuna purse seiner charter to the western Pacific July-November, 1976. Pacific Tuna Development Foundation. 47pp.
- Au, D. W. K. Cruise report. R/V *David Starr Jordan* Cruise DS-77-01-108, Porpoise distribution survey (Porpoise Cruise No. 213). January 4 - March 8, 1977. 40pp.
- Au, D. W. K. Cruise report. NOAA Ship *David Starr Jordan*. Cruise No. DS-77-06 (113); Porpoise Cruise No. 319. October 4 - November 21, 1977. [Dolphin population survey]. 16pp.
- Birk, S. Cruise summary of the US/USSR cooperative marine mammal observation and tagging cruise aboard the R/V *Zharkii* (April-May 1977). Tuna/Porpoise

- Management Branch, National Marine Fisheries Service, San Diego, California. 72pp.
- Bratten, D. A. and J. M. Coe. Cruise report. NOAA chartered tuna purse seiner M/V *Margaret L.* Harvey Wells, Master; Richard Williams, Fish Captain. NMFS Cruise #328, contract no. 03-8-M02-18. October 27, 1977 to December 22, 1977. [Gear and behavioral experiments to reduce dolphin mortality]. 15pp.
- Holts, D. B. and M. Deerman. Cruise report. M/V *Marietta*. September 25 to December 7, 1978. 5pp.
- Lambert, J. Cruise report. R/V *Oceanographer*, Cruise RP-9-OC-77 Porpoise Cruise No. 232. March 24, 1977, to April 15, 1977. [Piggy-backed dolphin distribution survey]. 6pp.
- Lambert, J. Cruise report. R/V *Oceanographer* DOMES Cruise RP-7-02-77. Porpoise Cruise No. 310. June 27, 1977 - July 29, 1977. [Piggy-backed dolphin distribution survey]. 9pp.
- McLain, R. W., D. A. Bratten and J. M. Coe. Cruise report. Contracted tuna purse seiner M/V *Margaret L.* (J. Scaffidi, Master). NMFS Cruise #265, contract no. 03-7-208-35184. May 19, 1977 to September 11, 1977. [To test experimental purse block and "super apron"]. 15pp.
- Perryman, W. Cruise report. NOAA Ship *Townsend Cromwell*, Cruise TC-77-01-74, Porpoise Cruise No. 214. January 6 - March 25, 1977. [Dolphin population survey]. 31pp.
- Peters, C. H. Cruise report. M/V *Maria Marie*. November 2 to December 25, 1977. 5pp.

1978

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